This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-13 (canceled)

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Claim 14 (new): A hydrogen occluding material comprising an aluminum hydride having a formula (1)

 AlH_x ... (1)

where $0 \le x \le 3$.

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Claim 15 (new): The hydrogen occluding material as defined in Claim 14, which is capable of hydrogenation and/or dehydrogenation at about 200°C or below.

15 Claim 16 (new): The hydrogen occluding material as defined in Claim 14, which occludes and releases hydrogen gas including in a form of hydrogen molecules or hydrogen atoms under adequate control of pressure and/or temperature.

20 Claim 17 (new): The hydrogen occluding material as defined in Claim 14, which contains a dopant functioning as a catalyst.

Claim 18 (new): The hydrogen occluding material as defined in Claim 17, wherein the dopant includes at least one species selected from transition metals belonging to groups III to V of the periodic table including at least one of chromium, iron, nickel, and alkali metals, and compounds thereof.

Claim 19 (new): The hydrogen occluding material as defined in Claim 17, wherein an amount of the dopant ranges from about 0.2 mol% to about 10 mol% of an amount of the aluminum hydride.

Claim 20 (new): The hydrogen occluding material as defined in Claim 14, which is in a form of fine powder.

Claim 21 (new): A method for using a hydrogen occluding material, the method comprising hydrogenating and/or dehydrogenating at about 200°C or below a hydrogen occluding material composed of an aluminum hydride having a formula (1)

 AlH_x ... (1)

where $0 \le x \le 3$.

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Claim 22 (new): The method for using a hydrogen occluding material as defined in Claim 21, which causes hydrogen gas including in a form of hydrogen molecules or hydrogen atoms to be occluded and released under adequate control of pressure and/or temperature.

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Claim 23 (new): The method for using a hydrogen occluding material as defined in Claim 21, wherein the hydrogen occluding material contains a dopant functioning as a catalyst.

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Claim 24 (new): The method for using a hydrogen occluding material as defined in Claim 23, wherein the hydrogen occluding material contains a dopant that includes at least one species selected from transition metals belonging to groups III to V of the periodic table including at least one of chromium, iron, nickel, and alkali metals, and compounds thereof.

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Claim 25 (new): The method for using a hydrogen occluding material as defined in Claim 23, wherein the hydrogen occluding material contains the dopant in an amount of about mol% 0.2 to about 10 mol% of an amount of the aluminum hydride.

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Claim 26 (new): The method for using a hydrogen occluding material as defined in Claim 21, wherein the hydrogen occluding material is in a form of fine powder.